HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 70006209-1

OIPE JC#1163 JUL 19 2001 PATENT & TRADEMARK OFFICE

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Thomas P DICK, et al. **Confirmation No.:** 1240

Application No.: 09/832,515 **Examiner:**

Filing Date: Apr 10, 2001 **Group Art Unit:** 2672

Title: Method And Apparatus For Demonstrating Mathematical Relationships

Box MISSING PARTS
COMMISSIONER FOR PATENTS
Washington, D.C. 20231

TRANSMITTAL LETTER FOR SUBMITTAL OF MISSING PARTS

Sir:

This is in response to a Notice to File Missing Parts of Application under 37 CFR 1.53(f) mailed on **May 17, 2001**. Enclosed is a copy of said Notice and the following documents and fees to complete the filing requirements of the above-identified application.

(X) Executed Declaration and Power of Attorney. The above-identified application is the same application which the inventor executed by signing the enclosed declaration.

( ) Statutory basic filing fee ( ) Utility $710.00 ( ) Design $320.00

( ) Additional claim fees of $

(X) Missing Parts Surcharge $130.00

( ) A Petition for Extension of Time for reply to Notice of Missing Parts is attached.
- ( ) one month $110.00
- ( ) two months $390.00
- ( ) three months $890.00
- ( ) four months $1390.00

Please charge to Deposit Account **08-2025** the sum of **$130.00**. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) A duplicate copy of this transmittal letter is enclosed.

Respectfully submitted,

Thomas P DICK, et al.

By _____

Edward Maker II

Attorney/Agent for Applicant(s)
Reg. No. **26762**

Date: 16 July 2001

Telephone No.: **(650) 857-5143**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: July 16, 2001

Typed Name: **Alba P. Escobar**

Signature: _____

Rev 06/01 (MisParts)

YZ

OIPE JC1637
JUL 19 2001
PATENT & TRADEMARK OFFICE

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D C 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/832,515	04/10/2001	Thomas P Dick	70006209-1

CONFIRMATION NO. 1240

FORMALITIES LETTER

OC000000006087633

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

Date Mailed: 05/17/2001

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of $130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is $ 130.**

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
  - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

07/24/2001 KZEWDIE 00000064 082025 09832515
01 FC:105 130.00 CH

A copy of this notice MUST be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202
PART 2 - COPY TO BE RETURNED WITH RESPONSE

PTO/SB/96 (08-06)

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION 036

ATTORNEY DOCKET NO. 70006209-1

OIPE JC41 JUL 19 2001 PATENT & TRADEMARK OFFICE

#5

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Batch No.:

Inventor(s): Thomas P DICK, et al.

Confirmation No.: 1240

Application No.: 09/832,515

Examiner:

Filing Date: Apr 10, 2001

Group Art Unit: 2672

Title: Method And Apparatus For Demonstrating Mathematical Relationships

OFFICIAL DRAFTSPERSON
Drawing Processing Branch
Washington, D.C. 20231

DRAWING TRANSMITTAL LETTER

Sir:

Enclosed herewith please find:

( ) _____ sheets of redlined drawing(s) which indicate proposed changes to the drawing(s). Upon approval of these proposed changes, formal drawing(s) will be submitted.

( ) _____ sheets of corrected formal drawing(s), as required by the Notice of Patent Drawings Objection (PTO-948) which accompanied the Office Action dated_____ .

( ) _____ sheets of corrected formal drawing(s), as required by the Notice of Patent Drawings Objection (PTO-948) and approved in the Notice of Allowability dated_____.

(X) 9 sheets of formal drawing(s). Please substitute these formal drawing(s) for the informal drawing(s) originally filed.

( ) _____

Examiner's approval of the entry of these drawings is respectfully requested. No new matter has been added.

Respectfully submitted,

Thomas P DICK, et al.

By _____

Edward Maker II

Attorney/Agent for Applicant(s)
Reg. No. **26762**

Date: 16 July 2001

Telephone No.: **(650) 857-5143**

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Date of Deposit: July 16 2001

Typed Name: **Alba P. Escobar**

Signature: _____

Rev 6/01 (Dwgtrans)

YZ

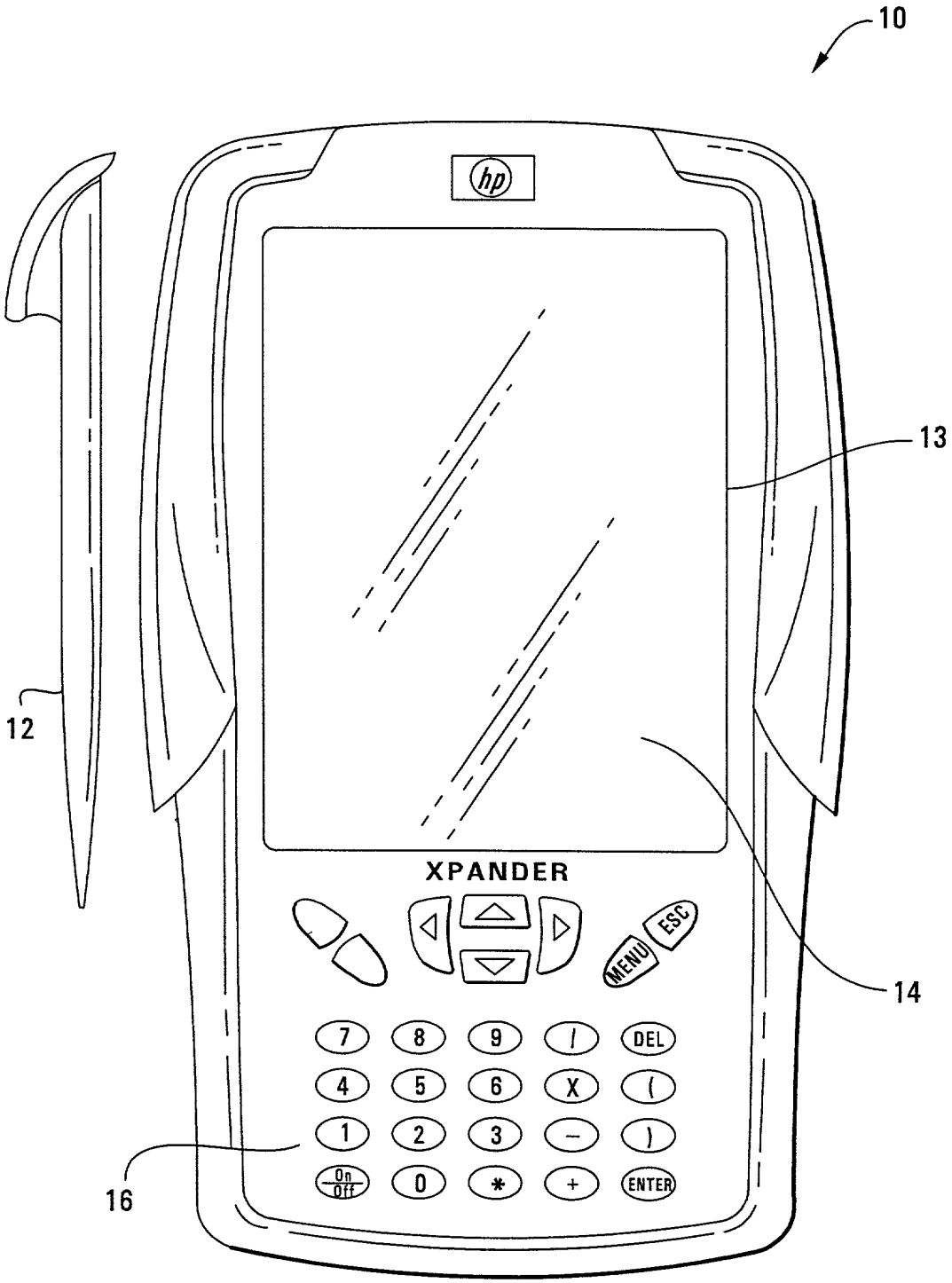
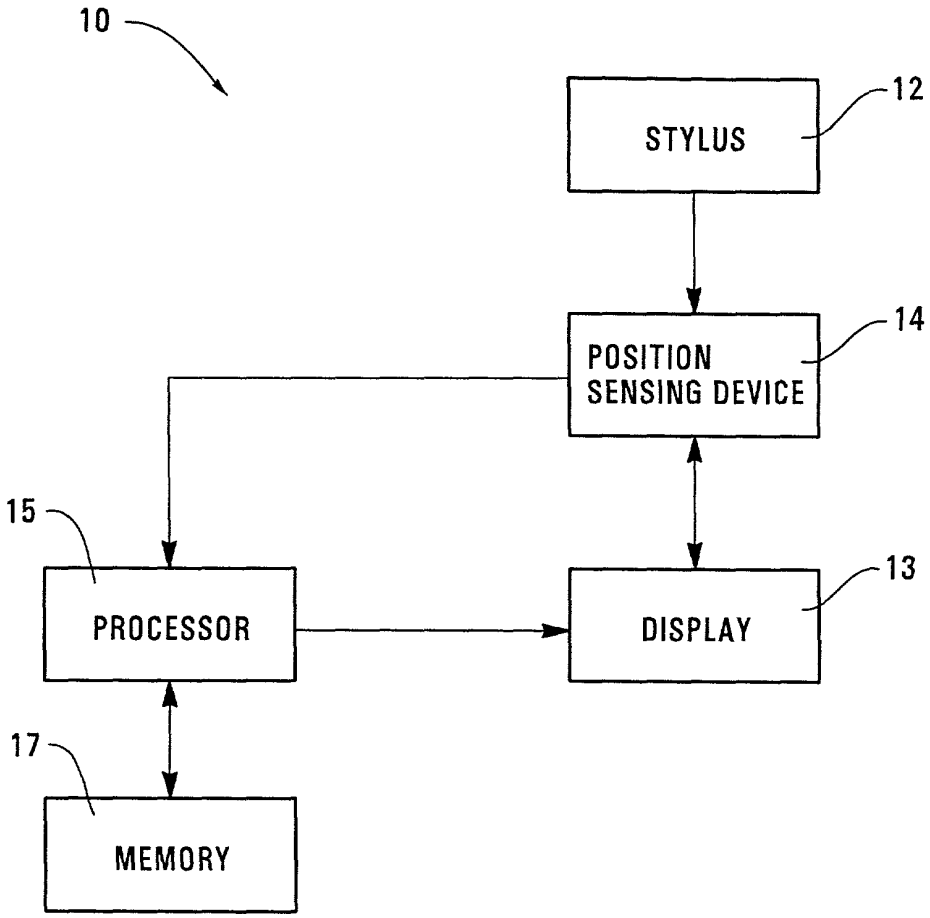


Figure 1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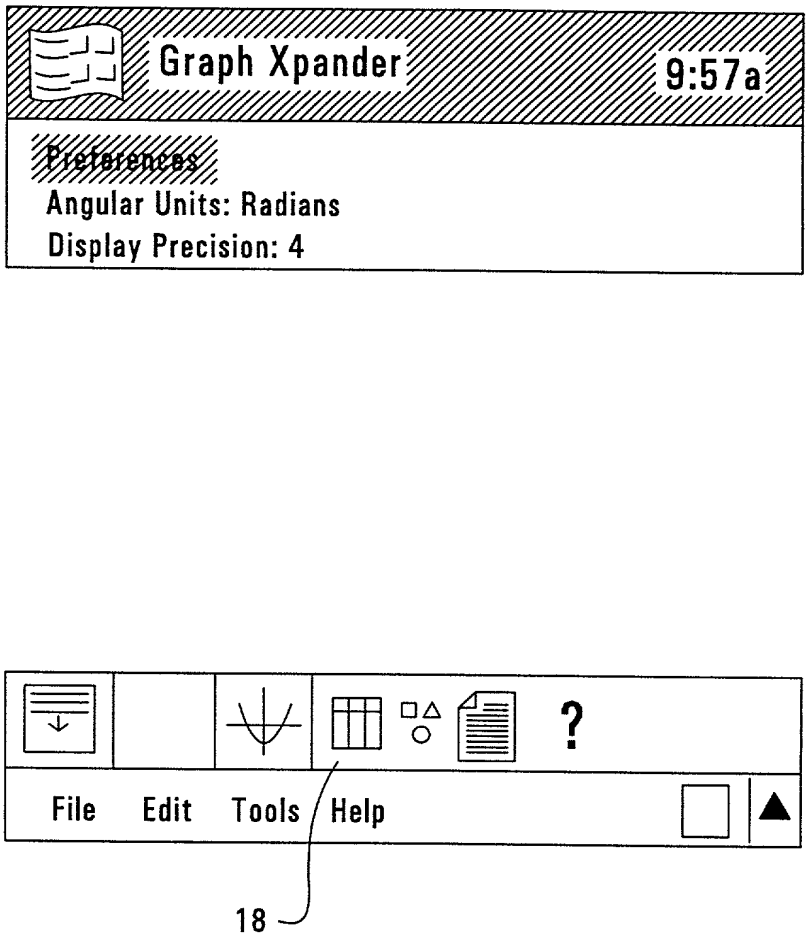
POSITION SENSING DEVICE
14
15
PROCESSOR
DISPLAY
13
17
MEMORY

Figure 2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Display Precision: 4
?
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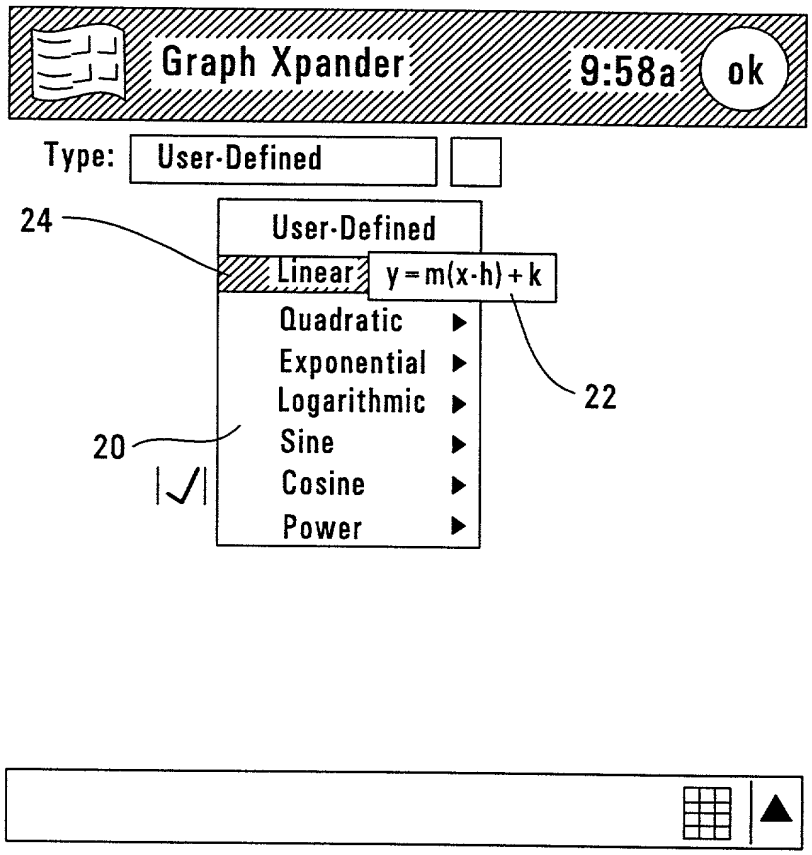
Edit
Tools
Help
18

Figure 3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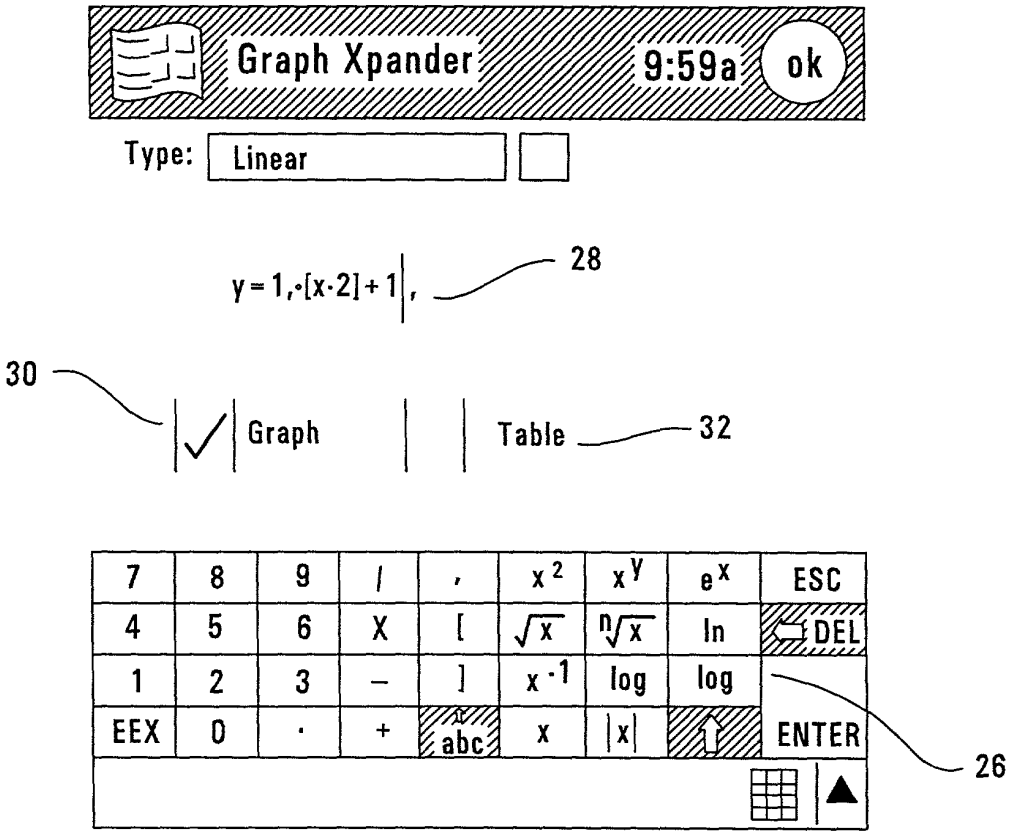
User-Defined
Linear
y = m(x-h) + k
Quadratic
Exponential
Logarithmic
Sine
Cosine
Power
22
20

Figure 4

Equation Type	Symbolic Representation
Linear	$y = m(x-h)+k$
Quadratic	$y = a(x-h)^2+k$
Conic	$(x-h)^2+(y-k)^2=r^2$
	$(x-h)^2/a^2+(y-k)^2/b^2=1$
	$(x-h)^2/a^2-(y-k)^2/b^2=1$
	$(y-k)^2/b^2-(x-h)^2/a^2=1$
	$y = a(x-h)^2+k$
	$(y-k)^2 = c(x-h)$
Exponential	$y = b\cdot a^x+k$
	$y = b\cdot e^{ax}+k$
Logarithmic	$y = b\cdot\ln(a(x-h)) + k$
Sine	$y = b\cdot\sin(a(x-h)) + k$
Cosine	$y = b\cdot\cos(a(x-h)) + k$
Power	$y = a(x-h)^r+ k$

Figure 5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Linear
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28
30
Graph
Table
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1 2 3 –] x⁻¹ log log
EEX 0 · + abc x |x| ENTER
26

Figure 6

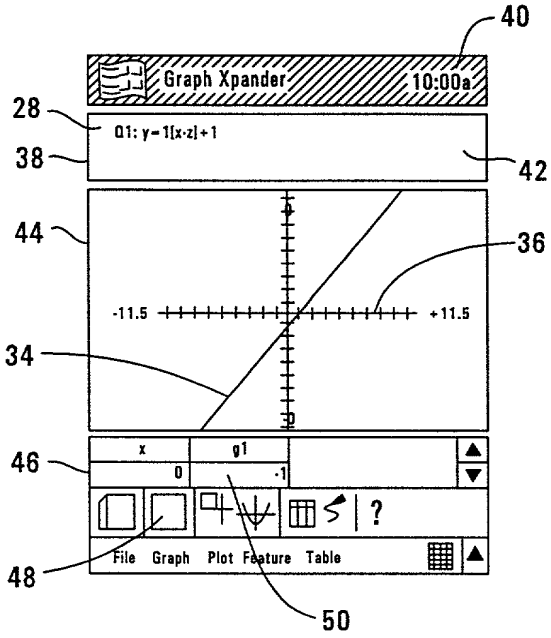


Figure 7-1

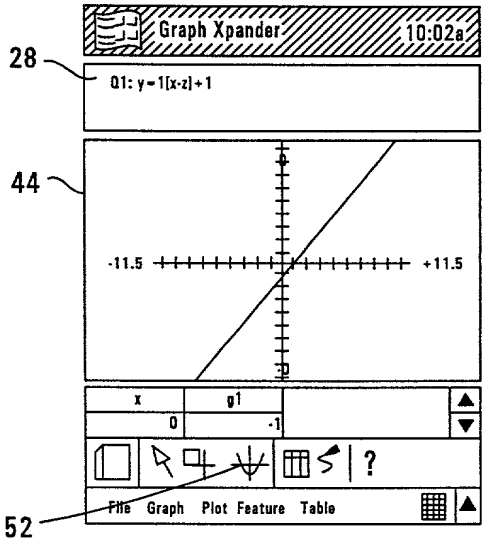


Figure 7-2

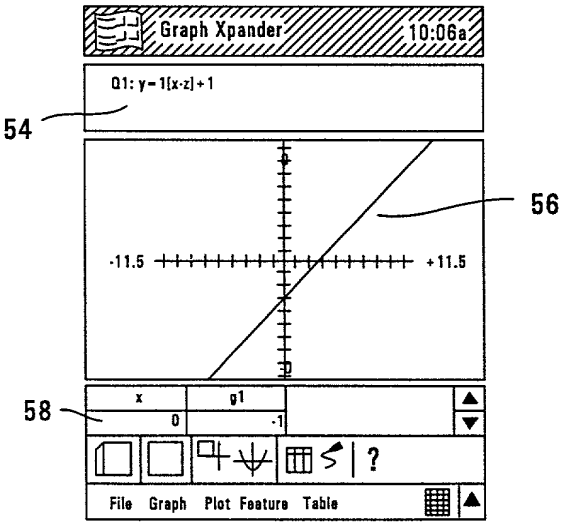


Figure 7-3

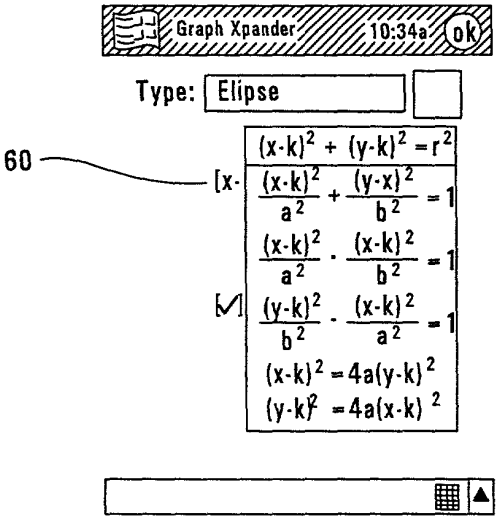


Figure 8-1

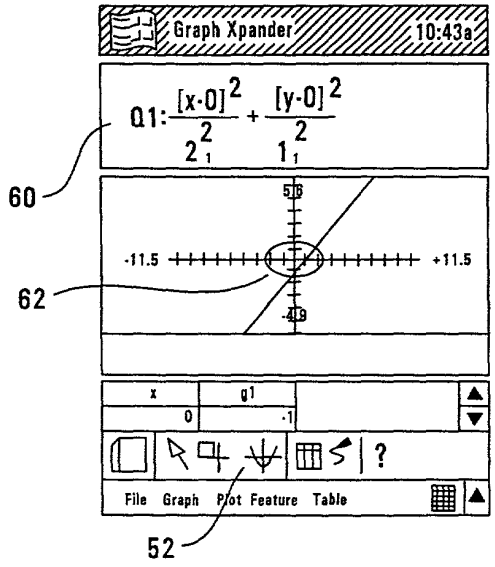


Figure 8-2

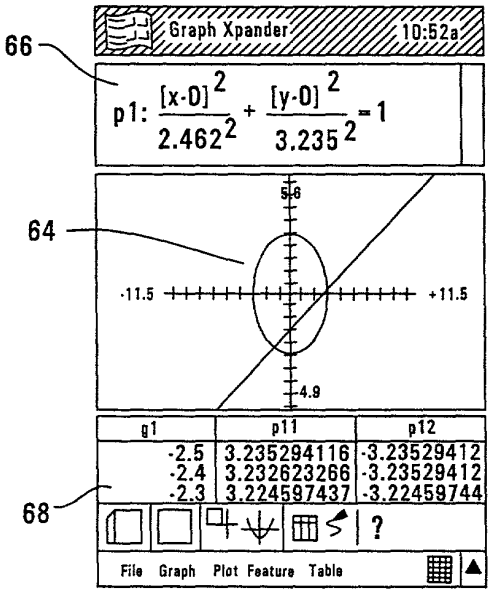
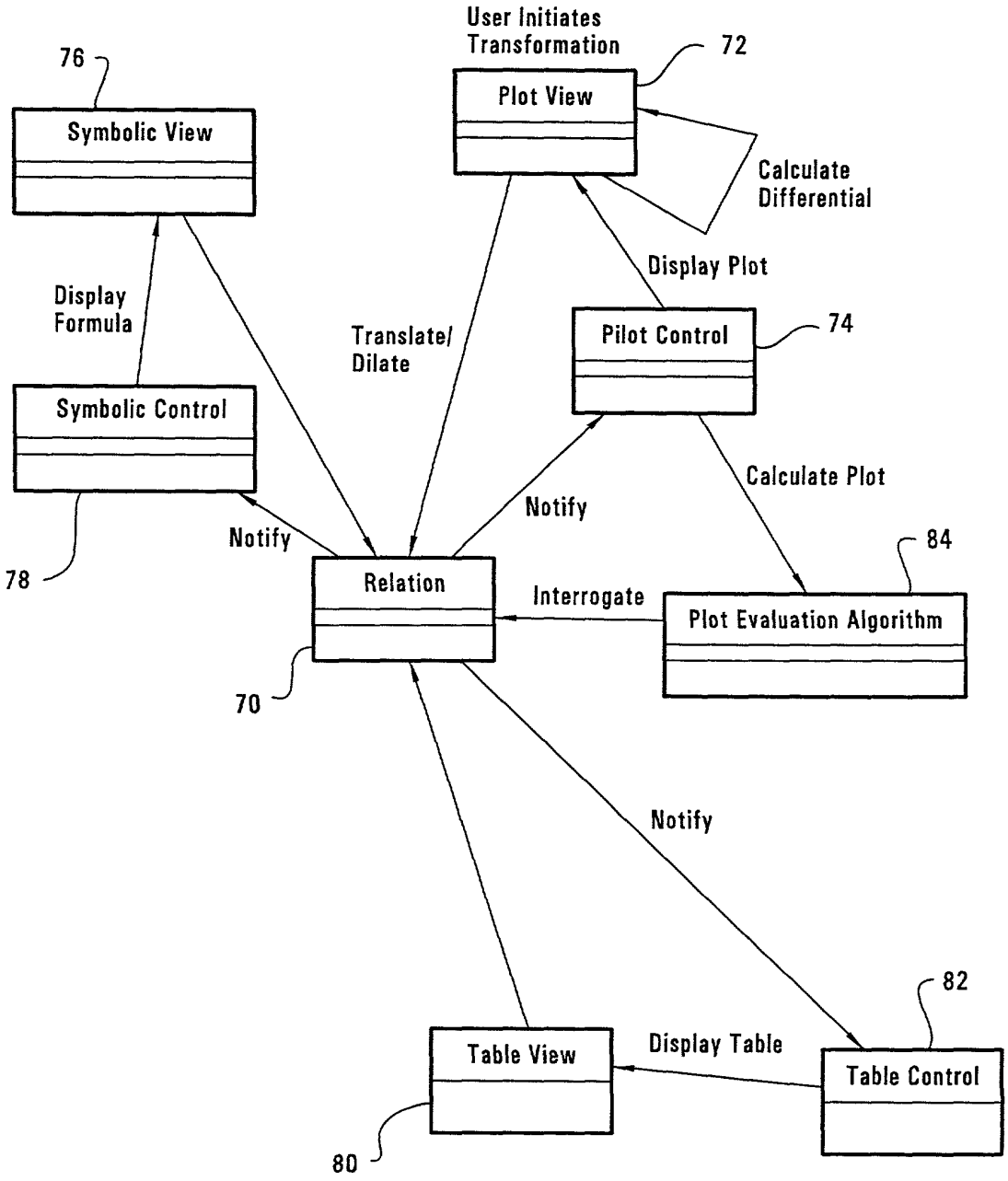


Figure 8-3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72
76
Plot View
Symbolic View
Calculate Differential
Display Plot
Display Formula
Translate/ Dilate
Pilot Control
74
Symbolic Control
Calculate Plot
Notify
Notify
84
78
Relation
Interrogate
Plot Evaluation Algorithm
70
Notify
82
Table View
Display Table
Table Control
80

Figure 9